

10 SOUTH WACKER DI IVE, SUITE 3000 CHICAGO, ILLINOIS 60006

TEL: 312.463.5000 FAX: 312.463.5001

www.bannerwitcoff.com

# **FACSIMILE TRANSMITTAL SHEET**

TO:	FROM:	RECEIVED	
MAIL STOP AMENDMENT	Kenneth F. Smolik	CENTRAL FAX CENTER	
COMPANY:	DATE:	MAR 0 7 2005	
USPTO	March 7, 2005		
FAX NO.:	TOTAL NO. OF PAGES: (including cover she at)		
(703) 872-9306	7		
YOUR REFERENCE NO.:	OUR REFERENCE (C/M) NO.:		
10/786,697	010886.00633		

RE:

In re: Appln. Matthew T. Abraham

Appln. No. 10/786,697 Filed: February 25, 2004

For: Multi-Channel Digital Feedback Reducer System

#### OFFIÇIAL FAX

If you do not receive all page(s) or have any problems receiving this transmission, please cal.

NAME:	PHONE:
Jasmin Santoyo	312-463-5560

#### **COMMENTS:**

Information Disclosure Statement

Important/Confidential: This message is intended only for the use of the individual or entity to whom it is addr. ssad. This message contains information from the law firm of Banner & Witcoff, Ltd. which may be privileged, confidential or exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution, retention, archiving, or copying of the communication is strictly prohibited. If you have received this communication in error, please notify us immediately at our telephone number listed above. We will be happy to arrange for the return of this me sage to our offices at no cost to you.

CHICAGO

WASHINGTON, D.C.

**BOSTON** 

PORTLAND, OR

PT 0/SB/21 (09-04)
Approved for use through 07/31/2006. DMB 0651-0031
U.S. Peterst and Trademark Office: U.S. DEPARTMENT DF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a wild 0% 3 control number.

TRANSMITTAL		Application Number	er	10/786,69	7	
		Filing Date		02/25/2004		
FORM		First Named Inven	itor	Matthew T. Abraham		
·		Art Unit		2644		
(to be used for all correspondence after	initial filino)	Examiner Name		Sellers, D	aniel R.	
Total Number of Pages in This Submiss		Attorney Docket N	lumber	010886.00	0633	
	ENCLO	SURES (check all tha	et apply)			
Fee Transmittal Form	Drawing(s		11.11	After All	owance Commu	ication to TC
Fee Attached	☐ Licensino-	related Papers			Communication (	
Amendment / Reply	Petition	·		of Appeals and Interferences  Appeal Communication () TC (Appeal Notice, Brief, Repl / Brief)		) TC
After Final		Convert to a al Application		Proprietary Information		,
Affidavits/declaration(s)		Attomey, Revocation f Correspondence Add	Iress	Status Letter		
Extension of Time Request	Terminal Disclaimer			Other Enclosure(s) (please identify below):		
Express Abandonment Request	Request for Refund CD, Number of CD(s)			t; Copy of Interna Cover Sheet	tional Search	
Information Disclosure Statement	☐ Landscape Table on CD					:
Certified Copy of Priority Document(s)	Remarks The Commissioner is authorized to debit or credit any overpayment or deficiency to Deposit Account No. 19-0733.					
Reply to Missing Parts/ incomplete Application						
Reply to Missing Parts under 37 CFR1.52 or 1.53						
SIGN	IATURE OF A	APPLICANT, ATTO	RNEY, OF	RAGENT		
Firm	Banner & \	Witcoff, LTD.				
Signature	Zenned Formolik					
Printed Name	Kenneth F. Smolik					
Date ·	03/07/2005 Reg. No.		44,344			
	CERTIFICAT	E OF TRANSMISS	ION/MAII	LING		
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.D. Box 1450, Alexandria, VA 22313-1450 on the date shown below.						
Signature Chomin Stuntovo						
Typed or printed name Jasmin S		()		Date	03/07/2005	

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 12 minutes to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will very depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing the burden, should be sent to the Chief Information Office. U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOY SEND FEES OR COMPLITED ORMS TO THIS ADDRESS. SEND TO: Commerce for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Atty. Docket No.:

010886.( 0633

Matthew T. Abraham

Serial No.:

10/786,697

Group Art Unit:

2644

Filed:

February 25, 2004

Examiner:

Sellers, Daniel R.

For:

Multi-Channel Digital Feedback Reducer

Confirmation No.:

3661

RECEIVED CENTRAL FAX CENTER

INFORMATION DISCLOSURE STATEMENT

MAR 0 7 2005

Commissioner for Patents Mail Stop Amendment P.O. Box 1450 Alexandria, VA 22313-1450

Pursuant to 37 C.F.R. §1.97-1.98, Applicants wish to make the following references listed on the enclosed Form PTO/SB/08A of record in the above-identified application. This Information Disclosure Statement is in compliance with the continuing duty of caudor as set forth in 37 C.F.R. §1.56. The references were cited in a foreign communication dated February 14, 2005 in corresponding International application No. PCT/US04/06124. A court sy copy of the foreign communication is enclosed herein.

Pursuant to 37 C.F.R. §1.97(e), each item of information contained in the information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement. Accordingly, applicant believes there is no fee due in connection with this filing, however, if a fee is due the Commissioner is authorized to debit our Deposit Account No. 19-0733.

Respectfully submitted,

BANNER & WITCOFF, LTD.

Dated: March 7, 2005

Banner & Witcoff, Ltd. 10 S. Wacker Drive Chicago, IL 60606 (312) 463-5000

PT 1/SB/08a (09-03)
Approved for use through 07/31/2006 OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid C. 48 control number.

#### Substitute for form 1449A/PTO Complete if Known Application Number 10/786,697 INFORMATION DISCLOSURE Fling Date 02/25/2004 STATEMENT BY APPLICANT First Named Inventor Matthew T. Abraham Art Unit 2644 (Use as many sheets as necessary) Sellers, Daniel R. Examiner Name Sheet 010886.00633 of Altorney Docket Number

U.S. PATENT DOCUMENTS						
Examiner Cite Mo.1	Document Number	Publication Date	Name of Patentee or Applicant of	Pages, Columna Lines,	Aftern Pelaver	
	No.1	Number - Kind Code <sup>2</sup> ( <i>f known</i> )	MOM-DO-YYYY	Cited Document	Passages or F Figures Ap	slevant
		US- 4,091,236	05-23-1978	Chen		
		US- 4,177,356	12-04-1979	Jaeger et al.		
		US- 5,506,910	04-09-1996	Miller et al.		
		US-				
		US-				
		บระ				
		US-				
		US-				
		UŞ-				
	i	US-				
		US-				
		US-				
		UŚ-	·			
		US-				
		US-				
		US-				
		US-	• • • • • • • • • • • • • • • • • • • •			
		US-				
		US-				
		US-				

	FOREIGN PATENT DOCUMENTS						
Examiner	Citie	Foreign Palent Document	Publication Name of Palentes or Wi-		Pages, Columns, Lir : Where Relevant	Ξ,	
Initials*	No.1	Country Code <sup>8</sup> - Number <sup>4</sup> - Kind Code <sup>8</sup> ( <i>J known</i> )	Oate MM-DD-YYYY	Applicant of Cited Document	Passages or Relevant Figures Appear		T <sup>8</sup>
		•		_			
					<u> </u>	-	
						+	
					<del></del>		
			<u> </u>	,	<del>                                     </del>	+	
			·		<del></del>	+	
·							

Examiner Signature	Date Considered	

"EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conconsidered. Include copy of this form with nost communication to applicant's unique citation designation number (options). 2 s I kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 2 Enter Office that issued the document, by the two-letter code (WIFO Sta dard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. "Ki d of document by the appropriate symbols as indicated on the document under WIFO Standard ST. 16 if possible." Applicant is to place a check mark here it English language Translation is attached.

Traispation is acached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 is sure to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the IndiMdual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Office. U.S. Patert and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLITED ORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, cell 1-600-PTO-9199 and select option 2.

PVE, JSS INT

### PATENT COOPERATION TREATY

## From the INTERNATIONAL SEARCHING AUTHORITY

To: KENNETH F. SMOLIK	PCT			
BANNER & WITCOFF, LTD. 10 SOUTH WACKER DRIVE SUITE 3000 CHICAGO, IL 60606-7407	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPOR 'AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION			
	(PCT Rule 44.1)			
	Date of mailing (day/marth/year) 14 FEB 2005			
Applicant's or agent's file reference 010886.00636	FOR FURTHER ACTION See paragraphs 1 a d 4 below			
International application No. PCT/US04/06124	International filing date (day/month/year) 01 March 2004 (01.03.2004)			
Applicant SHURE INCOPRORATED				
The applicant is hereby notified that the international ser Authority have been established and are transmitted here.	arch report and the written opinion of the International Sear bing			
Filing of amendments and statement under Article 15 The applicant is entitled, if he so wishes, to amend the o				
When? The time limit for filing such amendments is search report.	a normally two months from the date of transmittel or the ir errestional			
Where? Directly to the International Bureau of WIP 1211 Geneva 20, Switzerland, Facsimile N				
For more detailed instructions, see the notes on the accompanying sheet.				
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the international Scarching Authority are transmitted herea th.				
3. With regard in the protest against payment of (an) additional fcc(s) under Rule 40.2, the applicant is notified that				
the protest together with the decision thereon has been transmitted to the international Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.				
no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.				
4. Remtuders				
Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of whiterwal of the international application, m of the priority claim, must reach the International Bureau as provided in Rules 90bis. I and 90bis. 3, respectively, before the completion of the technical preparations for international publication.				
The applicant may submit comments on an informal basis on the written opinion of the International Searching Author y to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.				
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international prolitminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed				
acts for entry into the national phase before those designated Offices.  In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand it filled \ lithin 19				
See the American Derrin PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT A plicant's				
Guide, Volume II, National Chapters and the WIPO Internet site.  Name and mailing address of the ISA/ US  Authorized officer				
Mail Stop PCT, Attn: ISA/US Commissioner for Patents  Huyen Le				
P.O. Box 1450 Alexandria, Virginia 22313-1450 Telephone No. 703-305-3900				
Passimile No. (703) 303-3230				
Form PCT/ISA/220 (January 2004)	(See notes on viccom, anying sheet			

DOCKETED IN

RECEIVED

FEB : 7 2005

BANNER & WITCOFF

FEB 25 7005 due 3/14/05

## PATENT COOPERATION TREATY

# **PCT**

# INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 010886.00636		Porm PCT/ISA/220 Here applicable, Item 5 below.
Interestional application No. PCT/US04/06124	International filing date (day/month/year) 01 March 2004 (01.03.2004)	(Earliest) Priority Date (dayhno thh/year) 10 March 2003 (10.03.2003)
Applicant SHURE INCOPRORATED		
	en prepared by this International Searching copy is being transmitted to the International	
This international search report consis		-
1. Basis of the Report	ed by a copy of each prior art document cite	ed in this report.
a. With regard to the language, the	ne international search was carried out on the b unless otherwise indicated under this item.	easis of the international applicatio in the
	al search was carried out on the basis of a trait cority (Rule 23.1(b)).	alation of the international applica: on
b With regard to any nucleo	ride and/or amino acid sequence disclosed in	the international application, see 30x No. 1.
	d unsearchable (See Box No. II)	
<ol> <li>Unity of invention is lack</li> <li>With regard to the title,</li> </ol>	ing (See Box No. III)	
the text is approved as sub	mitted by the applicant.	
the text has been establish	ed by this Authority to read as follows:	
5. With regard to the abstract,		
the text is approved as sub		
	ed, according to Rule 38.2(b), by this Authority on the date of mailing of this international seam	
6. With regard to the drawings, a. the figure of the drawings to be	e published with the abstract is Figure No. 1	
a. The righte of the drawings in or	• =	
	Authority, because the applicant failed to sug	gost a figure.
as selected by this	Authority, because this figure better character	bes the invention.
b. none of the figures is to be	published with the abstract.	•

Form PCT/ISA/210 (first sheet) (January 2004)

International application No. INTERNATIONAL SEARCH REPORT PCT/US04/06124 CLASSIFICATION OF SUBJECT MATTER IPC(7) : H03B 1/00,1/04; H03F 1/34,1/38; H03G 3/00,5/00,11/04; H03K 5/00; H04B 1/10,3/04,15/00; H04 1 27/00 327/553,556,592; 330/294; 333/18; 381/83,93,94.2,103,108 US CL according to International Patent Classification (IPC) or to both national classification and IPC FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S.: 327/553,556,592; 330/294; 333/18; 381/83,93,94.2,103,108; 327/552; 330/109,294; 381/57,318 Documentation searched other than minimum documentation to the extent that such documents are included in the fields earthed Electronic data base consulted during the international search (name of data base and, where practicable, search terms up at) DOCUMENTS CONSIDERED TO BE RELEVANT Category \* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. US 4,091,236 (CHEN) 23 May 1978 (23.05.1978), see entire document 1- 5 Y US 4,177,356 (JAEGER et al.) 04 December 1979 (04.12.1979), column 9, lines 53-58 12 25 US 5,506,910 A (MILLER et al.) 9 April 1996 (09.04.1996), column 4, lines 32-40, X 1-1 column 5, lines 63-67, column 6, lines 51-61, and column 7, lines 9-24, 33-36, 42-47, and 12 25 Further documents are listed in the continuation of Box C. See patent family annex. later document published after the International filling - the or priority data and not to conflict with the application but died to understand the principle or theory underlying the inventors. Special caregories of cited documents: document defining the general state of the art which is not considered to be of particular relevance document of particular relevance; the claimed inventile cannot be considered novel or cannot be considered to involve as inventive see when the document is taken alone ·F. earlier application or patent published on or offer the international filing document which may throw doubts on priority claim(a) or which is cited to establish the publication due of another classical or other special reason (as specialized). -Ldocument of particular relevance: the cialmed invento - cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document referring to an oral disclosure, use, exhibition or other means document member of the same potent furnity -a-"P" document published prior to the international filing date but liner than the Date of the actual completion of the international search Date of mailing of the international search report 12 January 2005 (12.01.2005) Name and mailing address of the ISA/US Muthorized office Mail Stop PCT, Ago: ISA/US Huyen Lo Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Telephone No. 703-305-3900

Facsimile No. (703) 305-3230

Form PCT/ISA/210 (second sheet) (January 2004)